INTERNATIONAL SEARCH REPORT

International Application No PCT/US 03/35562

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B01J23/10 B01J B01J23/52 B01J23/42 C01B3/16 C01B3/32 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 BOIJ COIB Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ, INSPEC, COMPENDEX C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X US 2002/147103 A1 (FARRAUTO ROBERT J ET 21-44 AL) 10 October 2002 (2002-10-10) paragraphs '0012!,'0033!,'0081!,'0084!,'0088!,'0089! example 3 claims 18-21,23 1 - 20Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the 'A' document defining the general state of the art which is not considered to be of particular relevance Invention 'E' earlier document but published on or after the International *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-ments, such combination being obvious to a person skilled in the art. "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 29 March 2004 16/04/2004 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016 Gosselin, D

INTERNATIONAL SEARCH REPORT

Internation No
PCT/US 03/35562

0./0	Alex A COOL PRINTING CONTROL TO THE CONTROL OF THE	PC1/US US/35502
	etion) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	LI YUE ET AL: "Low temperature water-gas shift reaction over Cu- and Ni-loaded cerium oxide catalysts" APPLIED CATALYSIS B: ENVIRONMENTAL, AMSTERDAM, NL, vol. 27, 7 August 2000 (2000-08-07), pages 179-191, XP002194916 the whole document in particular: "3.2.2. Effect of metal	21-44
Α .	content" and Figure 5, and "Conclusions"	1–20
X .	KUNDAKOVIC L ET AL: "Cu- and Ag-Modified Cerium Oxide Catalysts for Methane Oxidation" JOURNAL OF CATALYSIS, ACADEMIC PRESS, DULUTH, MN, US, vol. 179, no. 1, 1 October 1998 (1998-10-01), pages 203-221, XP004447325 ISSN: 0021-9517 the whole document in particular "Conclusions"	21-44
A	The particular conclusions	1–20
A	PATENT ABSTRACTS OF JAPAN vol. 1998, no. 06, 30 April 1998 (1998-04-30) -& JP 10 036314 A (MITSUBISHI CHEM CORP), 10 February 1998 (1998-02-10) abstract	1-44
A	EP 1 138 378 A (JP MINISTRY OF EDUCATION CULTU) 4 October 2001 (2001-10-04) abstract	1-44
T	FU Q., SALTSBURG H. AND FLYTZANI-STEPHANOPOULOS: "Active non-mettalic Au and Pt Species on ceria-based water-gas shift ctalysts" SCIENCE, 'Online! vol. 301, 15 August 2003 (2003-08-15), pages 935-938, XP002275258 Retrieved from the Internet: <url:www.sciencemag.org> 'retrieved on 2004-03-29! the whole document</url:www.sciencemag.org>	1-44
		·

INTERNATIONAL SEARCH REPORT

Information on patent family members

Intermional Application No PCT/US 03/35562

				,	
Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 2002147103	3 A1	10-10-2002	US AU CA EP WO US US	2002061277 A1 9112401 A 2423477 A1 1337459 A2 0226619 A2 2002122764 A1 2002131915 A1 2002141938 A1	23-05-2002 08-04-2002 04-04-2002 27-08-2003 04-04-2002 05-09-2002 19-09-2002 03-10-2002
JP 10036314	Α	10-02-1998	NONE		
EP 1138378	A	04-10-2001	JP EP US	2001276625 A 1138378 A1 2001049338 A1	09-10-2001 04-10-2001 06-12-2001
					